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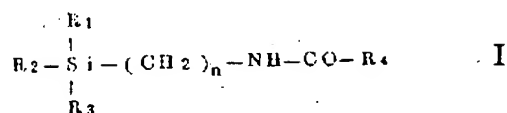
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APPLICANT : SUMITOMO CHEM CO LTD;

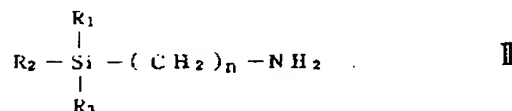
INVENTOR : NAGASE MASAYUKI;

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TITLE : CHROMATOGRAPH FILLER GRAFTED
WITH OPTICAL ACTIVE CARBOXYLIC
ACID AND SEPARATION OF
ENANTIOMER MIXTURE USING
CHROMATOGRAPH FILLER



(式中、 R_1 、 R_2 および R_3 は同一または相異なり、アルキル基、アルコキシル基、ヒドロキシル基またはハロゲン原子を表わし、 R_1 、 R_2 および R_3 のうち少なくともその一つはアルコキシル基またはハロゲン原子である。 n は2から4までの整数であり、 R_4-CO は種々の光学活性なカルボン酸残基を表わす。)



(式中、 R_1 、 R_2 、 R_3 および n は前述と同じ意味を有する。)

ABSTRACT : PURPOSE: To obtain a chromatograph filler which is relatively easy to manufacture, is chemical stable and is practicable by grafting an optically active carboxylic acid having a specific formula.

CONSTITUTION: A chromatograph filler wherein an optical active carboxylic acid deriv. expressed by the general formula I is grafted to an inorg. carrier having a hydroxyl group on its surface is obtd. by the method of bringing the aminoalkylsilane expressed by the general formula II into reaction by a known method with an inorg. carrier having a hydroxyl group on its surface to introduce a residual aminoalkylsilyl on the surface of the inorg. carrier then subjecting the same to dehydration condensation with an optically active carboxylic acid by using a condensation reagent such as N, N'-dicyclohexylcarbo di-imide, 1-ethoxycarbonyl-2-ethoxy-1,2-dehydroquinoline or the like.

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